

Name	Type-model	Slot x bay	Proc-essor(s)	GHz	Cores	Memory DIMMs	Disk(s)	Disk size	Disk bays	Disk Controller	Disk type	SATA optical	RAID Int	System mgmt	Ethernet	Avail date
TD230	1027-13U	5x7	1xE5603	1.60	4	1x2GB	None	3.5"	5xDirect Cable	ICH10R	SATA	DVD	0/1/10	IPMI	2xGb	Mar 11

- **This model has a 1-year limited warranty¹**
- **Flexible and green tower computing at value price point**
- **This small and medium business (SMB) model is part of the US TopSeller™ Program**

Processor(s)	Up to two processors, one processor standard, Intel® Xeon® Processor E5603 with quad-core , 4.8GT/s (giga-transfers/second) QPI (QuickPath Interconnect), Intel 64, Virtualization Technology, 1066MHz DDR3 memory controller, and 4MB cache	Front Rear
Implementation	Two LGA1366 sockets	
Memory	2GB std, 32GB max (16GB per processor), RDIMM, PC3-10600 1333MHz DDR3*, ECC, Memory Mirroring , eight 240-pin DIMM sockets**, * System automatically clocks down for processors with 1066MHz DDR3 memory controller ** Over four DIMMs requires dual processors	
Graphics	Onboard ServerEngines™ Pilot II graphics/management controller, one VGA DB-15 on rear, 32MB; <i>Maximum resolution: 1600x1200@52Hz</i>	
Disk bays	Five 3.5" SATA disk bays, no hot-swap, direct cable (DC)	
Disk controller	Six SATA connectors for opticals and disks, Serial ATA, SATA 3.0Gb/s, integrated in chipset, RAID ⁵ 0, 1, 10 support	• Tower mechanical • Business black color; metal case • 8.3"W x 20.1"D x 18.5"H • 210mm W x 510mm D x 470mm H • 57.6 lb (26.2kg) max configuration • Toolless side cover removal • Toolless disk and optical drive removal
Optical	DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴ Drive	
Diskette	None (use USB port)	
Ethernet	Two Gigabit Ethernet ports, Intel 82574L and 82567	
Chipset	Intel 5500 Chipset , Intel I/O Hub (IOH) for PCI Express slots 1-3 (see right) and links to 82574L, enterprise south bridge interface (ESI) to Intel I/O Controller Hub 10 RAID (ICH10R) for USB, slots 4-5, onboard SATA controller, and links to 82567	Bay 1 5.25", 1.6" high, external, std optical Bay 2 5.25", 1.6" high, external, optional optical Bay 3 3.5", 1" high, external, optional disk Bay 4 3.5", 1" high, external, optional disk Bay 5 3.5", 1" high, external, optional disk Bay 6 3.5", 1" high, external, optional disk Bay 7 3.5", 1" high, external, optional disk
Extender card	None	
Front ports	Two USB 2.0	
Rear ports	Four USB 2.0, external monitor (VGA DB-15), serial (9-pin), two ethernet (RJ-45)	
Internal ports	One USB 2.0 connector for optional tape drive	
Diagnostics	System status LEDs on front, Diagnostic LEDs on rear	
Systems mgmt	Onboard ServerEngines Pilot II graphics/management controller, IPMI 2.0-compliant baseboard management controller (BMC)	Slot 1: half-length, full-height, PCI Express 2.0 x8 Slot 2: half-length, full-height, PCI Express 2.0 x8 Slot 3: half-length, full-height, PCI Express 2.0 x8*** Slot 4: half-length, full-height, 32-bit PCI 2.3 Slot 5: half-length, full-height, PCI Express x4 *** x4 electrical
Prerequisites	Monitor, SATA/SAS disk, OS	
Keyboard	None (use USB port)	
Mouse	None (use USB port)	
Power supply(s)	One fixed 625 watts standard, universal, 80 PLUS® Bronze qualified	
Cooling	Five fans std (power supply, two front, one rear, first processor), one optional processor fan for second processor	
Accessories 2GB PC3-10600 DDR3 1333 MHz RDIMM 67Y1432 ThinkServer TD230 SATA RAID 5 Upgrade 67Y1459 250GB 3.5" SATA (7200 rpm) 67Y1400 More accessories on O-ARTsheet Other accessories at lenovo.com/accessories		
Max memory capacity 32GB with eight 4GB PC3-10600 DDR3 RDIMMs		Power-On Hotkey • Setup Utility: F2 at startup • Network Boot: F12 at startup • ICH10R RAID: Ctrl+E at startup
Max internal capacity 10.0TB with five 2TB 3.5" SATA disks		Software Management Tools • ThinkServer EasyStartup
Limited Warranty¹ ⇒ 1-year parts and labor ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays) ⇒ ThinkPlus™ services available; see lenovo.com/thinkplus/warranty • Onsite service upgrade options (in eligible locations)⁷ • Post warranty maintenance services ⇒ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378		Security • Administrator password • User password • Front panel lock out • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • USB port disablement (all)
		RoHS-compliant

See footnotes for important warranty information
 US model announced March 1, 2011